

HR HURST-ROSCHKE ENGINEERS, INC.

PROJECT: TR 557 over BNSF Railroad

COMPS FOR: Structure Cost Estimate

DESIGNED: CJC

DATE: 10/13/2010

JOB CODE: 130-0306

CHECKED: RVB

DATE: 10/14/2010

ROADWAY QTY.'S BY: JJC

DATE: 10/13/2010

Construction Cost - Bridge (2-Tracks, 1-Span, L= 62')

Code #	Item	Units	Quantity	Unit Cost	Cost
20700400	Porous Granular Embankment Special	Cu Yd	190	\$52.00	\$9,880
50100100	Removal of Existing Structure	Each	1	\$5,000.00	\$5,000
50200100	Structure Excavation	Cu Yd	800	\$20.00	\$16,000
50300225	Concrete Structures	Cu Yd	636	\$650.00	\$413,400
50300255	Concrete Superstructure	Cu Yd	14.4	\$900.00	\$12,960
50400605	Precast Prestressed Concrete Deck Beam (33" Depth)	Sq Ft	1830	\$60.00	\$109,800
50800105	Reinforcement Bars	Pound	60420	\$1.60	\$96,672
50901730	Bridge Fence Railing	Foot	130	\$150.00	\$19,500
51500100	Name Plates	Each	1	\$350.00	\$350
58300100	Portland Cement Mortar Fairing Course	Foot	549	\$4.00	\$2,196
Total =					\$685,758

Construction Cost - Approach Roadway

Code #	Item	Units	Quantity	Unit Cost	Cost
2510015	Mulch, Method 2	Acre	1	\$3,000.00	\$3,000
20100110	Tree Removal (6 to 15 Units Diameter)	Each	44	\$35.00	\$1,540
20100500	Tree Removal (Over 15 Units Diameter)	Acre	22	\$50.00	\$1,100
20100500	Tree Removal, Acres	Acre	0.4	\$12,000.00	\$4,800
20200100	Earth Excavation	Cu Yd	46	\$20.00	\$920
20400800	Furnished Excavation	Cu Yd	15185	\$20.00	\$303,700
25000200	Seeding, Class 2	Acre	1.2	\$3,000.00	\$3,600
25100630	Erosion Control Blanket	Sq Yd	4000	\$3.00	\$12,000
28000250	Temporary Erosion Control Seeding	Lb	240	\$8.00	\$1,920
28000400	Perimeter Erosion Barrier	Foot	2000	\$1.50	\$3,000
40200800	Aggregate Surface Course, Type B	Ton	1052	\$25.00	\$26,300
40300100	Bituminous Materials (Prime Coat)	Gal	1192	\$5.50	\$6,559
40300300	Bituminous Materials (Cover & Coat)	Gal	2385	\$4.00	\$9,540
40300500	Cover Coat Aggregate	Ton	29.8	\$80.00	\$2,385
40300600	Seal Coat Aggregate	Ton	29.8	\$80.00	\$2,385
542D0223	Pipe Culverts, Class D, Type 1 18"	Foot	114	\$50.00	\$5,700
63100085	Traffic Barrier Terminal, Ty 6	Each	4	\$3,000.00	\$12,000
63100167	Traffic Barrier Terminal, Ty 1 (Special) Tange	Each	4	\$2,500.00	\$10,000
67100100	Mobilization	L Sum	1	\$5,000.00	\$5,000
70101700	Traffic Control & Protection	L Sum	1	\$10,000.00	\$10,000
Total =					\$425,449

Construction Cost-Detour

Code #	Item	Units	Quantity	Unit Cost	Cost
20200100	Earth Excavation	Cu Yd	400	\$20.00	\$8,000
20100500	Tree Removal, Acres	Acre	4.8	\$12,000.00	\$57,600
25000200	Seeding, Class 2	Acres	0.5	\$3,000.00	\$1,500
28000250	Temporary Erosion Control Seeding	Lb	100	\$8.00	\$800
28000400	Perimeter Erosion Barrier	Foot	3000	\$1.50	\$4,500
40200800	Aggregate Surface Course, Type B	Ton	1268	\$25.00	\$31,689
542D0223	Pipe Culverts, Class D, Type 1 18"	Foot	142	\$50.00	\$7,100
---	Removal of Existing Crossing	Foot	18	\$1,400.00	\$25,200
---	Installation of Grade Crossing - Upgrade	L Sum	1	\$40,000.00	\$40,000
Total =					\$176,389

Estimated Construction Cost = \$1,287,596
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Miscellaneous

Code #	Item	Units	Quantity	Unit Cost	Cost
---	Land Acquisition	Each	1	\$50,000.00	\$50,000
---	Construction RR Flagging	Each	1	\$60,000.00	\$60,000
---	Preliminary Engineering	Each	1	\$103,000.00	\$103,000
---	Construction Engineering	Each	1	\$77,300.00	\$77,300
---	Materials Testing	Each	1	\$5,000.00	\$5,000
---	Lawyer's Fee	Each	1	\$10,000.00	\$10,000
Total =					\$305,300

Total Estimated Cost = \$1,592,896
